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Application: of Victor H. Hou
Entitled: Method for Innoreasing Physical Layer
Flexibility in Cable Modem Systems
Filed: August 24, 2001
Page 1 of 5

12 SUBSCRIBER SUBSCRIBER \overline{C} SC <u>S</u> CABLE MODEM SYSTEM HEADEND **CMTS**

FIG. 1 (PRIOR ART)

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Application: of Victor H. Hou
Entitled: Method for Innoreasing Physical Layer
Flexibility in Cable Modem Systems
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Page 2 of 5

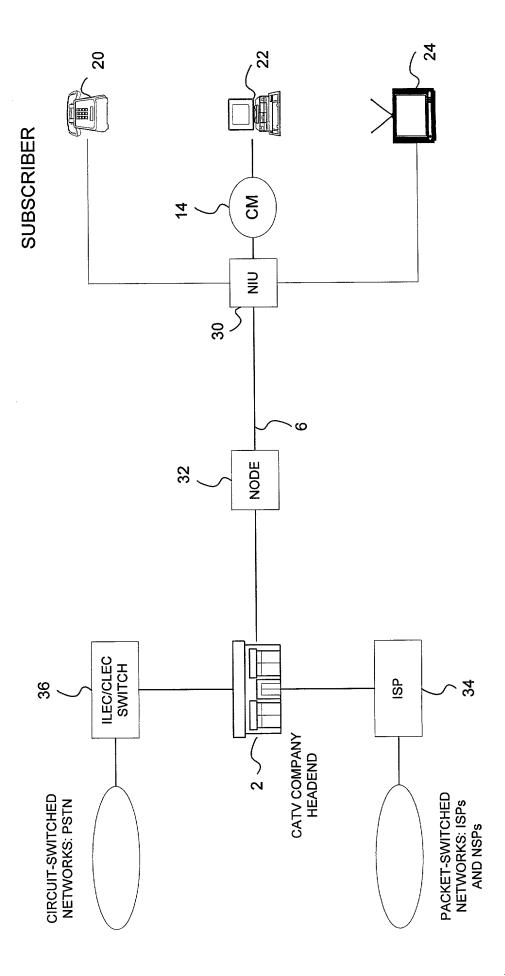


FIG. 2 (PRIOR ART)

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ETHERNET, USB, PCI, ETC. KEYBOARD \geq **★** INTERFACE 50 CPU 46 52 MAC **CABLE MODEM** DEMODULATOR MODULATOR 48 44 TUNER 42

FIG. 3 (PRIOR ART)

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Pillsbury Winthrop, LLP – ref: 0276074 Telephone (650) 233-4763 Application: of Victor H. Hou Entitled: Method for Inncreasing Physical Layer Flexibility in Cable Modem Systems Filed: August 24, 2001

OSI Layer Stackup for a DOCSIS Cable Modem

OSI	DOCSIS	
HIGHER LAYERS	APPLICATIONS	DOCSIS CONTROL MESSAGES
TRANSPORT LAYER	TCP/UDP	
NETWORK LAYER	IP	
DATA LINK LAYER	IEEE 802.2	
PHYSICAL LAYER	UPSTREAM	DOWNSTREAM
	TDMA (MINI- SLOTS) 5-42(65) MHz QPSK/16-QAM	TDM (MPEG) 54(100)-850 MHz 64/256-QAM ITU-T J.83 - ANNEX B(A)

FIG. 4 (PRIOR ART)

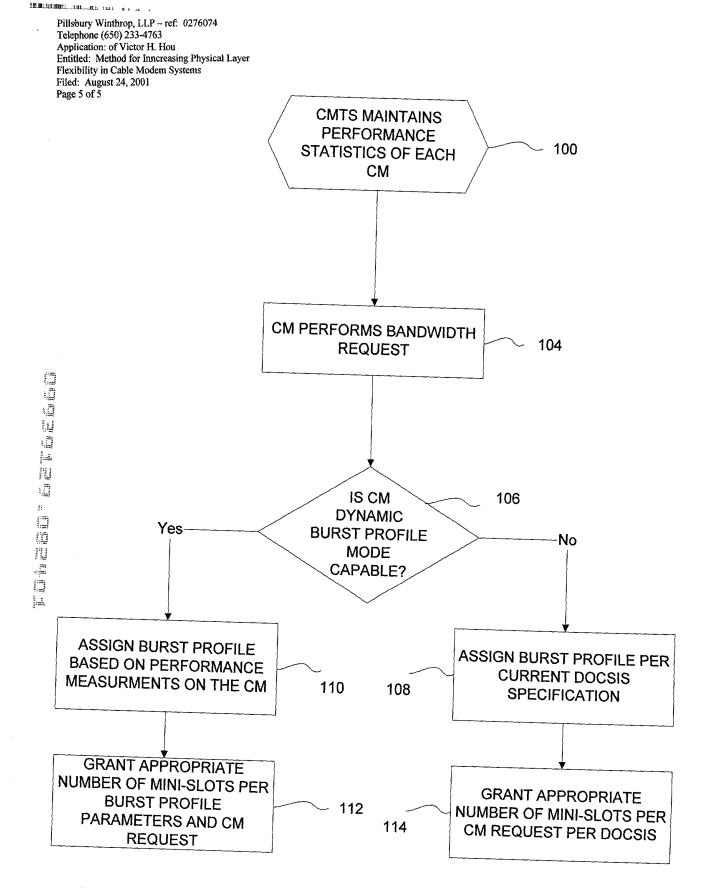


FIG. 5